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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/527,493

09/28/2005

Jan Van Lunteren

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4782

54856

7590

08/05/2008

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EXAMINER

LEE, ANDREW CHUNG CHEUNG

ART UNIT

PAPER NUMBER

2619

MAIL DATE

DELIVERY MODE

08/05/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/527,493	Applicant(s) VAN LUNTEREN, JAN	
	Examiner Andrew C. Lee	Art Unit 2619	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 March 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>5/15/2007</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This Office Action in response to the Application #10527493 filed on 3/11/2005 is entered.

Claims 2 – 20 have been canceled by Preliminary Amendment dated 3/20/2008.

Claim 1 is hence entered and presented for examination.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 5/15/2007 was filed, and the submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Drawings

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: Regarding Fig. 1, on page 3, lines 30 – 31, the specification discloses “two patterns “121h” and “ABh” from an input stream of 4-bit characters”, however, in the figure, there is no explicit indication of showing the input streams. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to

avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Regard Fig.1, the loop back transition state at s0 (0,2,...9, B...B), the transition state (A) from s0 to s4, the transition state (0,2,..9, C..F) from s4 to s0, the transition state (1) from s0 to s1, the transition state (0,3,...9, B..F) from s1 to s0, the transition state (0,2...9,B..F) from s2 to s0, the loop back state (A) at s4 and the transition state (B) from s4 to s5, the transition state (A) from s2 to s4, the transition state (A) from s4 to s1, the transition state (1) from s4 to s1, the loop back state (1) at s1 and transition state (2) from s1 to s2. All the transition states are indicated in the figure, but they are not described or mentioned in the specification, page 3. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the

immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

6. The disclosure is objected to because of the following informalities:

Referring to page 5, in line 30, the term "according to claims 1 to 3", but there is no claims 2 and 3, according to the preliminary amendment dated 3/20/2008.

Clarification is required.

Referring to page 6, in line 30, the term "The search method of claim 5", in line 11, the term "according to claim 6 and 7", in line 12, the term "according to claim 8", in lines 15-16, the term "according to claim 9", and in line 17, the term "according to claim 10"; However, there are no such claims, according to the preliminary amendment dated 3/20/2008. Clarification is required.

Appropriate correction is required.

7. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is

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requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

8. Claim 1 is objected to because of the following informalities:

The term “as-bit next state” in line 6 (p2/5) is a typo. It should be corrected as “a s-bit next state”.

The term “current sate” in line 13 (p3/5) is a typo. It should be corrected as “current state”.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear the claimed subject matter “the preceding step” referring to. Does it refer to creating step (starting at line 4) or converting step (starting at line 7). There is not clear indication which step is which.

Claim 1 recites the limitation “the entries of the state table” in line 7; the limitation “the current state” and “the input word” in line 9; the limitation “the reduced state table

entries” in line 11; the limitation “the first word of the chain” in line 13; the limitation “the current state” and “the current input” in line 15; the limitation “the reduced state table” in line 16; the limitation “the selected matching entry” in line 18; the limitation “the next word”, “the current input” in line 19 (of p2/5 of Preliminary Amendment 3/20/2008); the limitation “the reduced state table” in line 3; the limitation “the input n-bit word” in line 4; the limitation “the reduced state table” in line 8; the limitations “the current state and current input” in lines 12 – 13; the limitation “the identified compressed state table entry” in lines 16 – 17 (of p3/5 of Preliminary Amendment 3/20/2008).

There is insufficient antecedent basis for this limitation in the claim.

Allowable Subject Matter

10. Claim 1 will be allowed if and only if all the objections (drawings, specification, and claims) and rejections under 112 second paragraph are overcome.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- a) Basso et al. (US 20030039249 A1).
- b) Bilic et al. (US 6947430 B2).
- c) Balakrishnan et al. (US 20070011734 A1).
- d) Calvignac et al. (US 7327759 B2).
- e) Hussain et al. (US 7376125 B1).

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12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Lee whose telephone number is (571)272-3131. The examiner can normally be reached on Monday through Friday from 8:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on (571) 272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Andrew C Lee/
Examiner, Art Unit 2619
<7/30/2008>

/Edan Orgad/
Supervisory Patent Examiner, Art Unit 2619